August 13, 2015

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee
                    Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for
                    CPC, OPC, and WPC

The following accelerated items were implemented this past week:

RFC #402 – Removed one person's email address from several processing
scripts that send notifications to OPC personnel, since that person has left OPC.
Implemented on August 10 at 1730Z.

The following will be implemented the week of August 17, 2015:

RFC #403 - Update NMAP2 to display the parallel versions of the GEFS and
ETSS models. To be implemented on August 17 at 1130Z. (OPC)

RFC #404 – Modify the send script for the Excessive Rainfall Forecast to copy
the final products to the web for archiving). To be implemented on August 17 at
1200Z. (WPC)

RFC #405 – Update the scripts for the post-harvest Chesapeake Bay Vibrio
Parahaemolyticus web page to use a corrected salinity field, to include a Day 2
forecast, and to limit forecasts to 10 hours past sunrise. To be implemented on
August 17 at 1300Z. (OPC)

RFC #406 – Update the Matlab toolbox 'nctoolbox' to version 1.1.1. This release
eliminates some graphics-related errors in Matlab that OPC forecasters were
seeing. To be implemented on August 17 at 1400Z. (OPC)

RFC #407 – Modify the Chesapeake Bay Vibrio Parahaemolyticus (a species
which occurs in oysters) forecast web page to use corrected salinity fields from
the Vibrio Vulnificus forecasts. To be implemented on August 17 at 1500Z.
(OPC)

RFC #408 – Implement a patch for the CPC legacy process climdivs/dcdpstaupd,
which updates a precipitation dataset used by the Palmer Drought processing.
The upstream data that this process relies upon is undergoing a substantial

format change. This patch allows the legacy process to continue running by reformatting the new data to look like the old data format before it's read by the Fortran code. To be implemented on August 17 at 1500Z. (CPC)

RFC #409 – Move the processing of precipitation observations for JAWF and drought monitor activities from a local account to an operational account, now that Postgres is installed on an operational Compute Farm VM. This RFC is to be coordinated with RFC #408. To be implemented on August 17 at 1500Z. (CPC)

RFC #410 – Add precipitation to the daily statistics calculation's initiation script, which will create 5 and 7 day averages each day. To be implemented on August 17 at 2000Z. (CPC)

RFC #411 – Add a section to the '$PROD_SCRIPTS/make_archive_directories.csh' script to account for the upcoming Week 3-4 product. To be implemented on August 18 at 2000Z. (CPC)

The following CPC OPC WPC RFC(s) are in progress:

RFC #384 – The salinity fields in NOS's CBOFS model have drifted this summer by about 4 PSU, negatively impacting the Ecological Forecasts which use the CBOFS for Vibrio Vulnificus and Sea Nettle forecasts. A bias correction has been developed by the Ecological Forecast Pathogens group. This correction will be applied every 2 weeks through early fall or until the CBOFS model has been corrected. The Vibrio and Sea Nettles web pages will be restarted each time after the salinity correction has been implemented. Implementation began on July 22 at 2100Z and should be completed by October 27. (OPC)

RFC #394 – Making changes to support the NMFS Winter Cruise aboard the Research Vessel/Ice Breaker (RVIB) Nathaniel Palmer off Antarctica. Modify the image creation script to include 24 hours. Modify the email table to include the requested products and recipients. Activate 'auto_antarctica.pl' and 'GRtofs_AntarcticImages.csh' scripts in cron on IDP. Disable the same crons at the end of the cruise (1 Sept 2015). Implemented on July 30 at 1130Z and will be backed out on September 1. (OPC)

The following NCO RFCs to be implemented the week of August 17, 2015 may affect CPC, OPC, and/or WPC:

RFC #1207 – WCOSS Dataflow v1.63.10, WOC Dataflow v1.16.3 – Disseminate the parallel NAM MOS output to users for evaluation. These datasets will be

sent to Boulder-NOMADS. Implementation to begin on August 18 at 1200Z and should be completed on August 25.

RFC #1208 – Install a beta version of wgrib in order to correctly process GRIB1 ECENS data in $MODEL on the Compute Farm, as requested by CPC. To be implemented on August 18 at 1200Z.

RFC #1215 – Allow an ftps connection from CPC's Africa training server to a EUMETSAT server, in order to disseminate the NCEP model forecast data via EUMETSAT to the African National Meteorological Centers on a daily basis. To be implemented on August 19 at 1300Z.

RFC #1218 – Allow one CPC user to have ssh access from his Windows desktop to host noaadev.nemac.org, so that the user may access a NCEI/NEMAC development site for climate.gov. To be implemented on August 19 at 1400Z.

The following NCO RFC(s) are in progress and may affect the local Centers:

RFC #1096 – WCOSS: SP5 Software Upgrade v5.0 - IBM will apply the Service Pack 5 software upgrade to the WCOSS systems. Included in this upgrade are changes to RHEL, GPFS, IBM PE, IBM xCAT and several other components. IBM software support has released its latest HPC software stack service pack and is urging all x86_64 based Infiniband HPC Cluster customers to apply it to maximize product support, and address some known system issues. Tide work is still ongoing. Gyre will be completed in August. There will be a 2-day outage on Gyre when the work is being done.

RFC #1156 – WCOSS: TO4 network tie-in – Connect the Cray systems' Ethernet and Infiniband networks to WCOSS Phase 1 and Phase 2 network infrastructure. Work was completed on the Reston, VA systems the week of Aug. 3. The tentative date for this work in Orlando is August 31 and will include a 1-day outage of WCOSS (Gyre) that day.

RFC #1189 – WCOSS Dataflow v1.63.8, NCOSRV Dataflow v2.6.21 - The DBNet software on WCOSS and NCOSRV is being modified to begin sending datasets from the parallel Global Ensemble Forecast System (GEFS) for evaluation. Implementation began on August 11 at 1200Z and should be completed by August 25.

RFC #1194 - Deploy CAPTCHA enabled web comment forms for main NCEP, NCO, CPC, EMC, OPC, and WPC web sites. Allowing 4 days, as each Center has site specific configurations. Implementation began on August 11 at 1400Z and should be completed by 2000Z on August 14.

Please note that security-related RFCs are never listed in the RFC memo.

---- OPERATIONAL ANNOUNCEMENTS ----

1.   The CPC/OPC/WPC Configuration Management documents are available at https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.